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Page 2

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Page 3

Page 4

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Original Classifications 707/103R 707/206 13 8 717/116 7 717/148 6 709/316 6 717/145 5 714/38 5 717/108 5 717/124 4 717/130 4 717/162 707/10 3 3 707/102 3 707/200 3 709/310 3 717/107 3 717/111 717/128 3 717/140 3 717/151 3 717/154 3 717/165 2 707/103Y 2 707/104.1 2 709/100 2 709/318 2 709/330 2 709/331 2 717/104 2 717/106 2 717/118 2 717/122 2 717/126 2 717/127 2 717/131 2 717/137 2 717/139 2 717/141 2 717/147 2 717/153 2 717/157

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Cross-Reference Classifications
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1 Full Papers: Exposing document context in the personal web

84%

David Wolber, Michael Kepe, Igor Ranitovic
Proceedings of the 7th international conference o

Proceedings of the 7th international conference on Intelligent user interfaces January 2002

Reconnaissance agents show context by displaying documents with similar content to the one(s) the user currently has open. Research paper search engines show context by displaying documents that cite or are cited by the currently open document(s). We present a tool that applies such ideas to the personal web, that is, the space rooted in user documents but tightly connected to web documents as well. The tool organizes the personal web with a single topic hierarchy based on d ...

2 Application of intelligent agent technology for managerial data analysis and mining

82%

Ranjit Bose , Vijayan Sugumaran ACM SIGMIS Database January 1999 Volume 30 Issue 1

Data analysis and mining technologies help bring business intelligence into organizational decision support systems (DSS). While a myriad of data analysis and mining technologies are commercially available today, organizations are seeing a growing gap between powerful storage (data warehouse) systems and the

business users' ability to analyze and act effectively on the information they contain. We contend that to narrow this gap effectively, a data analysis and mining environment is needed that

Poster session and reception: Enabling personalization services d on the edge

80%

Xing Xie, Hua-Jun Zeng, Wei-Ying Ma Proceedings of the tenth ACM international conference on Multimedia December 2002

In this paper, we describe our work on enabling personalization services on the edge of the Internet. In contrast to traditional approaches, this method offers many advantages. First, content providers can make their content people-aware while the content is delivered to the user. Second, since the personalization work is distributed to an overlay network of edge servers, it greatly improves the scalability and availability of the services. Third, the sufficiency of user data collected in edge s ...

4 Using ERP systems in education

80%

d Edward E. Watson , Helmut Schneider Communications of the AIS February 1999

5 Model-driven development of Web applications: the AutoWeb

80%

d system

Piero Fraternali, Paolo Paolini

ACM Transactions on Information Systems (TOIS) October 2000 Volume 18 Issue 4

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

The SIFT information dissemination system

80%

Tak W. Yan , Hector Garcia-Molina

ACM Transactions on Database Systems (TODS) December 1999 Volume 24 Issue 4

Information dissemination is a powerful mechanism for finding information in wide-area environments. An information dissemination server accepts long-term user queries, collects new documents from information sources, matches the documents

against the queries, and continuously updates the users with relevant information. This paper is a retrospective of the Stanford Information Filtering Service (SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and ov ...

7 Tools and approaches for developing data-intensive Web

80%

d applications: a survey

Piero Fraternali

ACM Computing Surveys (CSUR) September 1999

Volume 31 Issue 3

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

8 Challenges for nomadic computing: mobility management and

80%

d wireless communications

Thomas F. La Porta , Krishan K. Sabnani , Richard D. Gitlin Mobile Networks and Applications August 1996 Volume 1 Issue 1

In this paper, we present several challenges and innovative approaches to support nomadic computing. The nomadic computing environment is characterized by mobile users that may be connected to the network via wired or wireless means, many of whom will maintain only intermittent connectivity with the network. Furthermore, those accessing the network via wireless links will contend with limitations of the wireless media. We consider three general techniques for addressing these challenges: (1 ...

9 Autonomous interface agents

80%

d Henry Lieberman

Proceedings of the SIGCHI conference on Human factors in computing systems March 1997

10 User authentication through keystroke dynamics

80%

Francesco Bergadano , Daniele Gunetti , Claudia Picardi ACM Transactions on Information and System Security (TISSEC) November 2002

Volume 5 Issue 4

Unlike other access control systems based on biometric features, keystroke analysis has not led to techniques providing an

acceptable level of accuracy. The reason is probably the intrinsic variability of typing dynamics, versus other---very stable---biometric characteristics, such as face or fingerprint patterns. In this paper we present an original measure for keystroke dynamics that limits the instability of this biometric feature. We have tested our approach on 154 individuals, achieving a F ...

11 Human-computer interaction: Assertions to better specify the amazon bug

80%

L. Baresi , G. Denaro , L. Mainetti , P. Paolini Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

Modern Web applications are mainly distributed systems that exploit the Internet as communication means and the Web as neutral interface to access services and data. The addition of services to Web applications poses problems that are usually tackled at the technology level, but that should be addressed during design to deliver quality Web applications. A typical example of these problems is the Amazon bug, an annoying problem that the user could encounter if after adding products to his shoppin ...

12 Personal ontologies for web navigation

80%

Jason Chaffee, Susan Gauch
Proceedings of the ninth international conference on Information and knowledge management November 2000

13 Measuring success

80%

Edith Schonberg, Thomas Cofino, Robert Hoch, Mark Podlaseck, Susan L. Spraragen
Communications of the ACM August 2000
Volume 43 Issue 8

14 Consistency and replication: Application specific data replication 77% for edge services

Lei Gao , Mike Dahlin , Amol Nayate , Jiandan Zheng , Arun Iyengar Proceedings of the twelfth international conference on World Wide Web May 2003

The emerging edge services architecture promises to improve the availability and performance of web services by replicating servers at geographically distributed sites. A key challenge in such systems is data replication and consistency so that edge server code can manipulate shared data without incurring the availability and performance penalties that would be incurred by accessing a traditional centralized database. This paper explores using a

distributed object architecture to build an edge s ...

15 Scalable feature selection, classification and signature generation 77% for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti , Byron Dom , Rakesh Agrawal , Prabhakar Raghavan

The VLDB Journal — The International Journal on Very Large Data Bases August 1998

Volume 7 Issue 3

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

16 Analysis of navigation behaviour in web sites integrating multiple 77% information systems

Bettina Berendt, Myra Spiliopoulou

The VLDB Journal — The International Journal on Very Large Data Bases March 2000

Volume 9 Issue 1

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

17 A secure infrastructure for service discovery and access in pervasive computing

77%

Jeffrey Undercoffer , Filip Perich , Andrej Cedilnik , Lalana Kagal , Anupam Joshi

Mobile Networks and Applications April 2003

Volume 8 Issue 2

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in

heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...

18 Web accessibility

77%

Maria Chrisohoidis, Olivia Ying
The Journal of Computing in Small Colleges May 2003
Volume 18 Issue 5

19 Poster session and reception: Reusable learning objects: a

77%

survey of LOM-based repositories

Filip Neven , Erik Duval

Proceedings of the tenth ACM international conference on Multimedia December 2002

In this paper, we survey the field of learning object repositories. Learning objects are typically relatively small content components that are meant to be reusable in different contexts. Associated to these learning objects are metadata, so that they can be managed, searched, etc. As the international standardization in this area is making important progress, the number of these repositories is growing rapidly, and the whole field of learning objects is rapidly maturing as a research area in it ...

20 Supporting awareness of shared interests and experiences in community

77%

Yasuyuki Sumi , Kenji Mase

ACM SIGGROUP Bulletin December 2000

Volume 21 Issue 3

In this paper, we propose a notion of facilitating encounters and knowledge sharing among people having shared interests and experiences in museums, conferences, etc. In order to show our approach and current status, this paper presents our project to build a communityware system situated in real-world contexts. The aims of the project are to build a tour guidance system personalized according to its user's individual contexts, and to facilitate knowledge communications among communities by matc

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21 Awareness and the WWW: an overview

77%

Olivier Liechti

ACM SIGGROUP Bulletin December 2000

Volume 21 Issue 3

The notion of awareness has received a lot of attention in the CSCW literature for quite some time now. Because it cannot be very precisely and uniquely defined, this notion covers a range of issues and is critical in very different situations. This is also true in the particular context of the WWW, where awareness has more than one facet. One objective for this paper is to give an overview of the field, by reviewing different awareness categories and by showing how they relate to Web-based syst ...

22 Full Technical Papers: Dynamic web page authoring by example 77% using ontology-based domain knowledge

José A. Macías , Pablo Castells

Proceedings of the 2003 international conference on Intelligent user interfaces January 2003

Authoring dynamic web pages is an inherently difficult task. We present DESK, an interactive authoring tool that allows the customization of dynamic page generation procedures with no a-priori tool-specific skill requirements from authors. Our approach consists of combining Programming By Example (PBE) techniques



with an ontology-based representation of knowledge displayed in web pages. DESK acts as a client-side complement of a dynamic web page generation system, PEGASUS, which generates HTML p

23 The Design and Implementation of a Mobile Learning Resource

Mike Sharples , Dan Corlett , Oliver Westmancott
Personal and Ubiquitous Computing January 2002
Volume 6 Issue 3

77%

The convergence of mobile communications and handheld computers offers the opportunity to develop technology that will assist individuals and groups to learn anytime, anywhere. We describe the theory-informed design, implementation and evaluation of a handheld learning device. It is intended to support children to capture everyday events such as images, notes and sounds, to relate them to web-based learning resources, to organise these into a visual knowledge map, and to share them with other le ...

24 Redesigning a large and complex website: how to begin, and a method for success

77%

Elaine Chou

Proceeding of the 30th annual ACM SIGUCCS fall conference on User services conference November 2002

In a technology-oriented, information-intense world, one of the largest challenges facing higher education is the organization, communication, and presentation of information in a coherent and usable fashion via the world wide web. The Learning Team, a part of Information Technology at the College of William and Mary, offers vision and a solution for developing a robust web-based information architecture to centrally administer customized learning modules and services as well as promote web-base ...

25 Social navigation: Making web sites be places for social interaction

77%

Andreas Girgensohn , Alison Lee

Proceedings of the 2002 ACM conference on Computer supported cooperative work November 2002

Technology can play an important role in enabling people to interact with each other. The Web is one such technology with the affordances for sharing information and for connecting people to people. In this paper, we describe the design of two social interaction Web sites for two different social groups. We review several related efforts to provide principles for creating social interaction environments and describe the specific principles that



quided our design. To examine the effectiveness of ...

26 Location-based services and mobile computing: data models:

77%

Metadata modeling in a global computing environment
Dieter Pfoser, Evaggelia Pitoura, Nectaria Tryfona
Proceedings of the tenth ACM international symposium on Advances in
geographic information systems November 2002

Emerging computational paradigms such as global and ubiquitous computing require some rethinking and innovative research ideas in many computer science areas. In this work, we aim at studying a mobile computing scenario from the database perspective. Given a global computing environment in which data is kept in a number of small-scale, data-charged, mobile devices that use, e.g., wireless networks, for communication, we want to assess the overall data scenario. We use an example to abstract the ...

27 Web search 1: Meta-recommendation systems: user-controlled integration of diverse recommendations

77%

J. Ben Schafer , Joseph A. Konstan , John Riedl Proceedings of the eleventh international conference on Information and knowledge management November 2002

In a world where the number of choices can be overwhelming, recommender systems help users find and evaluate items of interest. They do so by connecting users with information regarding the content of recommended items or the opinions of other individuals. Such systems have become powerful tools in domains such as electronic commerce, digital libraries, and knowledge management. In this paper, we address such systems and introduce a new class of recommender system called meta-recommenders. Meta-...

28 A composable framework for secure multi-modal access to 77% internet services from Post-PC devices
Steven J. Ross , Jason L. Hill , Michael Y. Chen , Anthony D. Joseph , David E. Culler , Eric A. Brewer

Mobile Networks and Applications October 2002

Volume 7 Issue 5

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

29 HAWAII: a domain-based approach for supporting mobility in wide-area wireless networks

77%

Ramachandran Ramjee , Kannan Varadhan , Luca Salgarelli , Sandra R. Thuel , Shie-Yuan Wang , Thomas La Porta IEEE/ACM Transactions on Networking (TON) June 2002 Volume 10 Issue 3

http://portal.acm.org/results.cfm?query.

Mobile IP is the current standard for supporting macromobility of mobile hosts. However, in the case of micromobility support, there are several competing proposals. In this paper, we present the design, implementation, and performance evaluation of HAWAII, a domain-based approach for supporting mobility. HAWAII uses specialized path setup schemes which install host-based forwarding entries in specific routers to support intra-domain micromobility. These path setup schemes deliver excellent perf ...

30 Wireless amd Mobile Networks Performance: Power-aware data 77% management for small devices

Sami Rollins , Kevin Almeroth , Dejan Milojiv?i? , Kiran Nagaraja Proceedings of the 5th ACM international workshop on Wireless mobile multimedia September 2002

Pervasive computing devices such as Personal Digital Assistants (PDAs) and laptop computers are becoming increasingly ubiquitous. The future promises even more advanced devices such as digital watches, jewelry, and even clothing. However, as pervasive devices become more widely used for more advanced applications, their resource limitations are becoming more apparent. In this work, we focus on data management and power limitations. We investigate the benefit of using power-aware schemes to autom ...

31 Secure wireless gateway

77%

Austin Godber, Partha Dasgupta
Proceedings of the ACM workshop on Wireless security September
2002

Wireless LANs (WLAN), using the IEEE 802.11b standard, have been shown to be inherently insecure. Given the widespread use of this type of WLAN for public and corporate access, it is important to have an "idiot proof" method for securing WLAN from hacking, sniffing, and unauthorized access. In this paper, we present a simple solution using IPSEC that provides an inexpensive, easy to implement, wireless gateway, and an access point that is secure. The client configuration involves no additional so ...

32 Research sessions: distributed systems: Proxy-based acceleration of dynamically generated content on the world wide

77%

web: an approach and implementation Anindya Datta , Kaushik Dutta , Helen Thomas , Debra VanderMeer , Debra VanderMeer , Krithi Ramamritham Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002

As Internet traffic continues to grow and web sites become increasingly complex, performance and scalability are major issues for web sites. Web sites are increasingly relying on dynamic content generation applications to provide web site visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost --- each request requires computation as well as communication across multiple components. To address these issues, various dynamic content cach

33 Legal, social, theoretical and fundamental aspects: Designing user interfaces for severely handicapped persons

João Brisson Lopes

77%

Proceedings of the 2001 EC/NSF workshop on Universal accessibility of ubiquitous computing: providing for the elderly May 2001

This paper addresses the many factors involved in the design of user interfaces for elderly persons and persons with severe disabilities. Interface design must take into consideration new user requirements on top of the requirements of normal users and

consider the wider range of user model parameters that must be accommodated to provide adaptation to the user. The paper stresses the great diversity of user needs and questions how such user needs can be met.An example from the ongoing INTERCOMUN

34 Keep your data safe and available while roaming
Yolanda Villate, Arantza Illarramendi, Evaggelia Pitoura
Mobile Networks and Applications August 2002
Volume 7 Issue 4

77%

The possibility of accessing and/or receiving local or remote data anywhere and at anytime constitutes an important advantage in many business environments. However, when working with mobile devices, users face many problems, such as: (1) devise exposure problems --- mobile devices are more vulnerable and fragile than stationary devices, because they can be easily stolen, lost or damaged, (2) media problems --- wireless communications are often unstable, asymmetric and expensive, a ...

35 NSDL: Core services in the architecture of the national science digital library (NSDL)

77%

Carl Lagoze , William Arms , Stoney Gan , Diane Hillmann , Christopher Ingram , Dean Krafft , Richard Marisa , Jon Phipps , John Saylor , Carol Terrizzi , Walter Hoehn , David Millman , James Allan , Sergio Guzman-Lara , Tom Kalt

Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002

We describe the core components of the architecture for the National Science Digital Library (NSDL). Over time the NSDL will include heterogeneous users, content, and services. To accommodate this, a design for a technical and organization infrastructure has been formulated based on the notion of a spectrum of interoperability. This paper describes the first phase of the interoperability infrastructure including the metadata repository, search and discovery services, rights management services, ...

36 PODS invited talk: Models and issues in data stream systems
Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani,
Jennifer Widom

77%

Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems June 2002

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying data streams. In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

37 Mobility and Wireless Access: A web middleware architecture for 77% dynamic customization of content for wireless clients
Jesse Steinberg, Joseph Pasquale
Proceedings of the eleventh international conference on World Wide Web May 2002

We present a new Web middleware architecture that allows users to customize their view of the Web for optimal interaction and system operation when using non-traditional resource-limited client machines such as wireless PDAs (personal digital assistants). Web Stream Customizers (WSC) are dynamically deployable software modules and can be strategically located between client and server to achieve improvements in performance, reliability, or security. An important design feature is that Customizer ...

38 Multimedia and visualization: Dynamic structuring of web

information for access visualization
Jess Y. S. Mak , Hong Va Leong , Alvin T. S. Chan
Proceedings of the 2002 ACM symposium on Applied computing March
2002

The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

39 Building efficient and effective metasearch engines

77%

Weiyi Meng, Clement Yu, King-Lup Liu ACM Computing Surveys (CSUR) March 2002 Volume 34 Issue 1

Frequently a user's information needs are stored in the databases of multiple search engines. It is inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...

40 1a---Links and Navigation: The look of the link - concepts for the 77% user interface of extended hyperlinks
Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf
Proceedings of the twelfth ACM conference on Hypertext and
Hypermedia September 2001

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers.

This paper presents an overview of pragmatic historical approaches, and discusses problems evolving from sophisticated hypertext linking features. Blending the potential of an XLink-enhanced Web with old ideas and recent GUI techniques, a vision for browser link interfaces of the future is being developed. We hope to stimula ...



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41 Interactive path analysis of web site traffic

77%

🖪 Pavel Berkhin , Jonathan D. Beche , Dee Jay Randall Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining August 2001

The goal of Path Analysis is to understand visitors' navigation of a Web site. The fundamental analysis component is a path. A path is a finite sequence of elements, typically representing URLs or groups of URLs. A full path is an abstraction of a visit or a session, which can contain attributes described below. Subpaths represent interesting subsequences of the full paths. Path Analysis provides user-configurable extraction, filtering, preprocessing, noise reduction, descriptive st ...

42 Session 1: Group formation in computer-supported collaborative 77% 团 learning

Martin Wessner, Hans-Rüdiger Pfister

Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work - Volume 2001 September 2001

Group formation in CSCL environments is either done manually with little support from the system, or the system needs an elaborated model of the learning domain in order to select potential peer learners and to form learning groups in a pedagogically sound way. Our research objectives include the integration of

collaborative learning into the learning environment so that knowledge about the collaboration context can be used to support collaboration, including group formation without the need for ...

43 Rethinking the design of the Internet: the end-to-end arguments 77% d vs. the brave new world

Marjory S. Blumenthal , David D. Clark ACM Transactions on Internet Technology (TOIT) August 2001 Volume 1 Issue 1

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

44 iMobile: a proxy-based platform for mobile services

77%

🗹 Chung-Hwa Herman Rao , Yih-Fam Robin Chen , Di-Fa Chang , Ming-Feng Chen

Proceedings of the first workshop on Wireless mobile internet July 2001

iMobile is a proxy-based platform that addresses the research issues in building mobile services. iMobile acts as a massage gateway that allows mobile devices using various protocols on different access networks to relay messages to each other. It also allows these clients to access internet services, corporate databases, and to control various networked devices, iMobile implements three key abstractions: devlet, infolet, and applet. A devlet is a driver attached to ...

45 Incremental clustering for profile maintenance in information gathering web agents

77%

Gabriel L. Somlo, Adele E. Howe

Proceedings of the fifth international conference on Autonomous agents May 2001

User profiles are the central component of most personalized Web information agents. They consist of a set of models representing the various topics of interest to the user. Often the agent learns the user's preferences from examples of documents deemed relevant to the user. The topic of the document can either be supplied by the user (active modeling), or it must be guessed by the agent (passive modeling), which is more convenient but is expected to diminish the agent's accuracy. We presen ...



77% **46** Design: static pages are dead: how a modular approach is d changing interaction design interactions September 2001 Volume 8 Issue 5 47 Information delivery systems: an exploration of Web pull and 77% d push technologies Julie E. Kendall , Kenneth E. Kendall Communications of the AIS April 1999 77% **48** WebViews: accessing personalized web content and services Juliana Freire, Bharat Kumar, Daniel Lieuwen Proceedings of the tenth international conference on World Wide Web April 2001 **49** Web-based personalization and management of interactive video 77% Rune Hjelsvold , Subu Vdaygiri , Yves Léauté Proceedings of the tenth international conference on World Wide Web April 2001 **50** Agent-oriented technology in support of e-business 77% Mike P. Papazoglou Communications of the ACM April 2001 Volume 44 Issue 4 77% **51** Cookies and Web browser design: toward realizing informed d consent online Lynette I. Millett, Batya Friedman, Edward Felten Proceedings of the SIGCHI conference on Human factors in computing systems March 2001 We first provide criteria for assessing informed consent online. Then we examine how cookie technology and Web browser designs have responded to concerns about informed consent. Specifically, we document relevant design changes in Netscape Navigator and Internet Explorer over a 5-year period, starting in 1995. Our retrospective analyses leads us to conclude that while cookie technology has improved over time regarding informed consent, some startling problems remain. We specify six of these ...

52 Configuration agents, control and privacy

77%

Shari Trewin

Proceedings on the conference on universal usability, 2000 on

Conference on Universal Usability November 2000

When a truly diverse community of users is considered, it is clear that a single interface, no matter how well designed, cannot accommodate everyone. Configuring an interface to match a particular user's requirements can be a demanding task. This paper focuses on the potential utility of configuration agents to support users with low initial levels of control, or low levels of knowledge about configuration. The relationship between configuration of systems by agents, user control, and ...

77% **53** Transcoding proxy for nonvisual web access d Hironobu Takagi , Chieko Asakawa Proceedings of the fourth international ACM conference on Assistive technologies November 2000 **54** Netwinder Office Server 77% **利** Jason Kroll Linux Journal March 2000 55 Session summaries from the 17th symposium on operating 77% systems principle (SOSP'99) Jay Lepreau, Eric Eide ACM SIGOPS Operating Systems Review April 2000 Volume 34 Issue 2 **56** Web usage mining for Web site evaluation 77% Myra Spiliopoulou Communications of the ACM August 2000 Volume 43 Issue 8

57 The mobile agent technology to support and to access museum

Proceedings of the 2000 ACM symposium on Applied computing March

58 Evolving intelligent text-based agents d Edmund S. Yu , Ping C. Koo , Elizabeth D. Liddy

Paolo Bellavista, Antonio Corradi, Andrea Tomasi

d information

2000

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Proceedings of the fourth international conference on Autonomous agents June 2000

59 VRCommerce — electronic commerce in virtual reality

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Yosi Mass, Amir Herzberg
Proceedings of the first ACM conference on Electronic commerce
November 1999

60 Managing service level agreements

77%

Nathan J. Muller

International Journal of Network Management May 1999 Volume 9 Issue 3

Service level agreements are increasingly being used in enterprise networks and are contracts that specify the performance parameters within which a network service is provided. In this article their application, preparation, and effects on IT departments are considered. Copyright © 1999 John Wiley & Sons, Ltd.

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61 SCHOLION — SCaleable TecHnOLogIes fOr TelelearniNg 77% Barbara Froschauer, Chris Stary, Michael Ellmer, Thomas Pilsl, Wolfgang Ortner, Alexandra Totter Proceedings of the 2000 ACM symposium on Applied computing March 2000

62 On mutli-resolution document transmission in mobile Web Stanley M. T. Yau, Hong Va Leong, Dennis McLeod, Antonio Si ACM SIGMOD Record September 1999 Volume 28 Issue 3

77%

We propose a multi-resolution transmission mechanism that allows various organizational units of a web document to be transferred and browsed according to the amount of information captured. We define the notion of information content for each individual organizational unit of a web document as an indication of its captured information. The concept of information content is used as a foundation for defining the notion of relative informatio ...

63 Learning users' interests by unobtrusively observing their normal 77% d behavior

Jeremy Goecks, Jude Shavlik Proceedings of the 5th international conference on Intelligent user interfaces January 2000

For intelligent interfaces attempting to learn a user's interests, the cost of obtaining labeled training instances is prohibitive because the user must directly label each training instance, and few users are willing to do so. We present an approach that circumvents the need for human-labeled pages. Instead, we learn &ldguo; surrogate&rdguo; tasks where the desired output is easily measured, such as the number of hyperlinks clicked on a page or the amount of scrolling performed. Our assumpt ...

64 User interactions with everyday applications as context for

77%

iust-in-time information access

Jay Budzik , Kristian J. Hammond

Proceedings of the 5th international conference on Intelligent user interfaces January 2000

Our central claim is that user interactions with everyday productivity applications (e.g., word processors, Web browsers, etc.) provide rich contextual information that can be leveraged to support just-in-time access to task-relevant information. We discuss the requirements for such systems, and develop a general architecture for systems of this type. As evidence for our claim, we present Watson, a system which gathers contextual information in the form of the text of the document the user ...

65 Archiving telemeetings

77%

Constantin Arapis

Proceedings of the eighth international conference on Information and knowledge management November 1999

This paper presents a prototype system for modeling and managing the complete life-time of telemeetings/teleconferences. The system provides services for modeling telemeetings, storing telemeetings in a telemeeting database, annotating telemeetings and querying the telemeeting database.

66 Indexing and retrieval of scientific literature

77%

Steve Lawrence, Kurt Bollacker, C. Lee Giles Proceedings of the eighth international conference on Information and knowledge management November 1999

The web has greatly improved access to scientific literature. However, scientific articles on the web are largely disorganized, with research articles being spread across archive sites, institution sites, journal sites, and researcher homepages. No index covers all of the available literature, and the major web search engines typically do not index the content of Postscript/PDF documents at all. This paper discusses the creation of digital libraries of scientific literature on the web, incl ...

67 Warehousing and mining Web logs

77%

Karuna P. Joshi , Anupam Joshi , Yelena Yesha , Raghu Krishnapuram Proceedings of the second international workshop on Web information and data management November 1999

Analyzing Web Logs for usage and access trends can not only provide important information to web site developers and administrators, but also help in creating adaptive web sites. While there are many existing tools that generate fixed reports from web logs, they typically do not allow ad-hoc analysis queries. Moreover, such tools cannot discover hidden patterns of access embedded in the access logs. We describe a relational OLAP (ROLAP) approach for creating a web-log warehouse. This is pop ...

68 Dynamic multicast information dissemination in hybrid

77%

satellite-wireless networks

Eddie C. Shek, Son K. Dao, Yongguang Zhang, Darrel Van Buer Proceedings of the ACM international workshop on Data engineering for wireless and mobile access August 1999

69 A system for automatic personalized tracking of scientific

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d literature on the Web

Kurt D. Bollacker, Steve Lawrence, C. Lee Giles Proceedings of the fourth ACM conference on Digital libraries August 1999

70 Video anywhere: a system for searching and managing

77%

77%

distributed heterogeneous video assets

Amit Sheth, Clemens Bertram, Kshitij Shah

ACM SIGMOD Record March 1999

Volume 28 Issue 1

Visual information, especially videos, plays an increasing role in our society for both work and entertainment as more sources become available to the user. Set-top boxes are poised to give home users access to videos that come not only from TV channels and personal recordings, but also from the Internet in the form of downloaded and streaming videos of various types. Current approaches such as Electronic Program Guides and video search engines search for video assets of one type or from on ...

71 Design and implementation of RMP: a virtual electronic market

d place

Susanne Boll, Wolfgang Klas, Bernard Battaglin ACM SIGMOD Record December 1998

Volume 27 Issue 4

72 Technical documents designed to fit the beginner: a recursive

77%

d process

Monica Younger

Proceedings of the 16th annual international conference on Computer documentation September 1998

73 Mobile networking in the Internet

77%

d Charles E. Perkins

Mobile Networks and Applications December 1998

Volume 3 Issue 4

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

74 Experiences with network-based user agents for mobile

77%

d applications

Volume 3 Issue 2

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee Mobile Networks and Applications August 1998

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

75 WebMate: a personal agent for browsing and searching

77%

d Liren Chen , Katia Sycara

Proceedings of the second international conference on Autonomous agents May 1998

76 Internal information brokering and patterns of usage on

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d corporate intranets

Clarie M. Vishik

Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge: the integration challenge November 1997

77 Cluster-based scalable network services

77%

🖪 Armando Fox , Steven D. Gribble , Yatin Chawathe , Eric A. Brewer , Paul Gauthier

ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles October 1997 Volume 31 Issue 5

78 AGS: introducing agents as services provided by digital libraries 77% J. Alfredo Sánchez , John J. Leggett , John L. Schnase Proceedings of the second ACM international conference on Digital libraries July 1997

79 Designing documentation for the online environment

77%

- Susan Topol, Frances Mueller Roach, Will Rhee Proceedings of the 15th annual international conference on Computer documentation October 1997
- **80** Strategic directions in database systems— breaking out of 77% 1 the box

Avi Silberschatz , Stan Zdonik ACM Computing Surveys (CSUR) December 1996 Volume 28 Issue 4

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81 Internet-accessible information retrieval tools for advanced

77%

d DB/IR courses

Sally Jo Cunningham

ACM SIGCSE Bulletin, Proceedings of the twenty-seventh SIGCSE technical symposium on Computer science education March 1996 Volume 28 Issue 1

A number of information retrieval tools are now freely available over the Internet, either as full production programs or demos. These programs illustrate a wide variety of IR techniques, and can allow students to gain realistic, hands-on experience with a variety of algorithms that were previously difficult to discuss other than in theory. In addition, many of these programs are associated with computing-related document collections that in and of themselves are useful for computer science stud ...

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■ Model-driven development of Web applications: the AutoWeb■ system

82%

Piero Fraternali , Paolo Paolini

ACM Transactions on Information Systems (TOIS) October 2000 Volume 18 Issue 4

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

2 Personalization from incomplete data: what you don't know can 80% did hurt

Balaji Padmanabhan , Zhiqiang Zheng , Steven O. Kimbrough Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining August 2001

Clickstream data collected at any web site (site-centric data) is inherently incomplete, since it does not capture users' browsing behavior across sites (user-centric data). Hence, models learned from such data may be subject to limitations, the nature of which has not been well studied. Understanding the limitations is particularly important since most current personalization

09/318917

techniques are based on site-centric data only. In this paper, we empirically examine the implications of learning from ...

3 Tools and approaches for developing data-intensive Web

80%

d applications: a survey

Piero Fraternali

ACM Computing Surveys (CSUR) September 1999

Volume 31 Issue 3

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

4 An empirical evaluation of user interfaces for topic management 80% of Web sites

Brian Amento , Will Hill , Loren Terveen , Deborah Hix , Peter Ju Proceeding of the CHI 99 conference on Human factors in computing systems : the CHI is the limit: the CHI is the limit May 1999

Herbal-T, enabling integration, interoperability, and reusability of 80%
 Internet components

Israel Hilerio , Weidong Chen

ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration March 1999

Volume 24 Issue 2

Herbal-T introduces an architecture where Internet component integration, interoperability, and component instantiation are the base for information flow coordination. This architecture introduces a framework for combining object functionality across the Internet to create new Internet applications. These new applications are defined in terms of active relationships. The concept of active relations as found in active databases is extended to define a new paradigm for creating Internet applicatio ...

6 Experiences with network-based user agents for mobile applications

80%

Thomas F. La Porta , Thomas Woo , Krishan K. Sabnani , Ramachandran Ramjee Mobile Networks and Applications August 1998 Volume 3 Issue 2 Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

7 Hypermedia and Graphics 2: Vector graphics: from PostScript and Flash to SVG

80%

Steve Probets , Julius Mong , David Evans , David Brailsford Proceeding of the ACM Symposium on Document Engineering November 2001

The XML-based specification for Scalable Vector Graphics(SVG), sponsored by the World Wide Web consortium, allows for compact and descriptive vector graphics for the Web. This paper describes a set of three tools for creating SVG, either from first principles or via the conversion of existing formats. The *ab initio* generation of SVG is effected from a server-side CGI script, using a PERL library of drawing functions; later sections highlight the problems of converting Adobe PostScript and ...

8 Animated CharToon faces

80%

Zsófia Ruttkay , Han Noot
Proceedings of the first international symposium on
Non-photorealistic animation and rendering June 2000

9 Context and Location: Framework for security and privacy in

77%

d automotive telematics

Sastry Duri, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang Proceedings of the second international workshop on Mobile

Proceedings of the second international workshop on Mobile commerce September 2002

Automotive telematics may be defined as the information-intensive applications that are being enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture of sensor data, storage and exchange of data to obtain remote services. In order for automotive telematics to grow to its full potential, telematics data must be protected. Data protection must include privacy and security for end-users, service providers and application pr ...

M. G. J. Van Den Brand , J. Heering , P. Klint , P. A. Olivier ACM Transactions on Programming Languages and Systems (TOPLAS) July 2002

Volume 24 Issue 4

The ASF+SDF Meta-Environment is an interactive language development environment whose main application areas are definition and implementation of domain-specific languages, generation of program analysis and transformation tools, and production of software renovation tools. It uses conditional rewrite rules to define the dynamic semantics and other tool-oriented aspects of languages, so the effectiveness of the generated tools is critically dependent on the quality of the rewrite rule implementa

11 Video matting of complex scenes

77%

Yung-Yu Chuang , Aseem Agarwala , Brian Curless , David H. Salesin , Richard Szeliski

ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques July 2002

Volume 21 Issue 3

This paper describes a new framework for *video matting,* the process of pulling a high-quality alpha matte and foreground from a video sequence. The framework builds upon techniques in natural image matting, optical flow computation, and background estimation. User interaction is comprised of garbage matte specification if background estimation is needed, and hand-drawn keyframe segmentations into "foreground," "background" and "unknown". The segmentations, called *trimaps,* are inter ...

12 Token-based scanning of source code for security problems

☐ John Viega , J. T. Bloch , Tadayoshi Kohno , Gary McGraw

ACM Transactions on Information and System Security (TISSEC)

August 2002

77%

Volume 5 Issue 3

We describe ITS4, a tool for statically scanning C and C++ source code for security vulnerabilities. Compared to other approaches, our scanning technique stakes out a new middle ground between accuracy and efficiency. This method is efficient enough to offer real-time feedback to developers during coding while producing few false negatives. Unlike other techniques, our method is also simple enough to scan C++ code despite the complexities inherent in the language. Using ITS4, we fo ...

13 Digital libraries for spatial data: G-Portal: a map-based digital library for distributed geospatial and georeferenced resources

77%

Ee-Peng Lim , Dion Hoe-Lian Goh , Zehua Liu , Wee-Keong Ng , Christopher Soo-Guan Khoo , Susan Ellen Higgins Proceeding of the second ACM/IEEE-CS joint conference on Digital libraries July 2002

As the World Wide Web evolves into an immense information network, it is tempting to build new digital library services and expand existing digital library services to make use of web content. In this paper, we present the design and implementation of G-Portal, a web portal that aims to provide digital library services over geospatial and georeferenced content found on the World Wide Web. G-Portal adopts a map-based user interface to visualize and manipulate the distributed geospatial and georef ...

14 PODS invited talk: Models and issues in data stream systems

77%

Brian Babcock , Shivnath Babu , Mayur Datar , Rajeev Motwani , Jennifer Widom

Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems June 2002

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying data streams. In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

15 Web and IP based design: IP delivery for FPGAs using Applets and JHDL

77%

Michael J. Wirthlin, Brian McMurtrey

Proceedings of the 39th conference on Design automation June 2002 This paper introduces an FPGA IP evaluation and delivery system that operates within Java applets. The use of such applets allows designers to create, evaluate, test, and obtain FPGA circuits directly within a web browser. Based on the JHDL design tool, these applets allow structural viewing, circuit simulation, and netlist generation of application-specific circuits. Applets can be customized to provide varying levels of IP visibility and functionality as needed by both customer and vendor.

16 Adaptive Hypermedia: The hypercontext framework for adaptive 77% Hypertext

Christopher D Staff

Proceedings of the thirteenth conference on Hypertext and hypermedia June 2002

We present HyperContext, a framework for adaptive and adaptable

hypertext. Our fundamental premise is that when people encounter the same document, each may interpret the information it contains differently. Usually, the interpretations are not available to future users of the same information. HyperContext permits users to make these interpretations explicit, and provides support to structure hyperspace around interpretations of documents, rather than around the documents themselves. When a use ...

17 UI and Applications: Clustering for opportunistic communication

Jay Budzik, Shannon Bradshaw, Xiaobin Fu, Kristian J. Hammond
Proceedings of the eleventh international conference on World Wide
Web May 2002

77%

We describe ongoing work on I2I, a system aimed at fostering opportunistic communication among users viewing or manipulating content on the Web and in productivity applications. Unlike previous work in which the URLs of Web resources are used to group users visiting the same resource, we present a more general framework for clustering work contexts to group users together that accounts for dynamic content and distributional properties of Web accesses which can limit the utility URL based systems ...

18 Hypermedia in the Small: Hunter gatherer: interaction support for the creation and management of within-web-page collections M. C. schraefel, Yuxiang Zhu, David Modjeska, Daniel Wigdor, Shengdong Zhao

77%

Proceedings of the eleventh international conference on World Wide Web May 2002

Hunter Gatherer is an interface that lets Web users carry out three main tasks: (1) collect components from within Web pages; (2) represent those components in a collection; (3) edit those component collections. Our research shows that while the practice of making collections of content from within Web pages is common, it is not frequent, due in large part to poor interaction support in existing tools. We engaged with users in task analysis as well as iterative design reviews in order to underst ...

19 Pareto-optimal formulations for cost versus colorimetric accuracy 77% trade-offs in printer color management

D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan ACM Transactions on Graphics (TOG) April 2002 Volume 21 Issue 2

Color management for the printing of digital images is a challenging task, due primarily to nonlinear ink-mixing behavior and the presence of redundant solutions for print devices with more than three inks. Algorithms for the conversion of image data

to printer-specific format are typically designed to achieve a single predetermined rendering intent, such as colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion schemes based on a general Pareto-optimal formul ...

20 Contributed articles: Resource description framework: metadata 77% and its applications

K. Selçuk Candan , Huan Liu , Reshma Suvarna ACM SIGKDD Explorations Newsletter July 2001 Volume 3 Issue 1

Universality, the property of the Web that makes it the largest data and information source in the world, is also the property behind the lack of a uniform organization scheme that would allow easy access to data and information. A semantic web, wherein different applications and Web sites can exchange information and hence exploit Web data and information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

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Piero Fraternali, Paolo Paolini

ACM Transactions on Information Systems (TOIS) October 2000 Volume 18 Issue 4

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2 Tools and approaches for developing data-intensive Web applications: a survey

80%

Piero Fraternali

ACM Computing Surveys (CSUR) September 1999 Volume 31 Issue 3

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commercial and research fields, by identifying and characte ...

Experiences with network-based user agents for mobile **d** applications

80%

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramiee Mobile Networks and Applications August 1998 Volume 3 Issue 2

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5 Contributed articles: Resource description framework: metadata 77% and its applications

K. Selçuk Candan , Huan Liu , Reshma Suvarna ACM SIGKDD Explorations Newsletter July 2001 Volume 3 Issue 1

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Knowledge Management: Organizing What You Know: FOCI:

flexible organizer for competitive intelligence
Hwee-Leng Ong, Ah-Hwee Tan, Jamie Ng, Hong Pan, Qiu-Xiang Li
Proceedings of the tenth international conference on Information and
knowledge management October 2001

This paper describes how an integrated web-based application, code-named FOCI (Flexible Organizer for Competitive Intelligence), can help the knowledge worker in the gathering, organizing, tracking, and dissemination of competitive intelligence or knowledge bases on the web. It shows how text mining techniques including a novel user-configurable clustering, trend analysis and visualization techniques can be used synergistically to address the problem of managing information gathered from the web ...

7 Technical Session: The implementation of prometheus: a case

77%

d study

Muna Sakya, Brad Beecher

Proceedings of the 29th annual conference on University and College Computing Services: Fall User Services Conference - Volume 29 October 2001

In this paper, we describe the implementation of Prometheus, an online course delivery tool at The University of Texas at Austin. When George Washington University (GWU) created Prometheus for the thousands of courses they now have online, they wanted to create a tool that did more than just put course content on the web. GWU wanted to use a product that was flexible and scalable for future enhancements. The University of Texas at Austin's (UT Austin) College of Engineering licensed Prometheus i ...

8 A user-centered design approach to personalization

77%

Joseph Kramer , Sunil Noronha , John Vergo Communications of the ACM August 2000 Volume 43 Issue 8

Declarative specification of data-intensive Web sites

77%

Mary Fernández , Dan Suciu , Igor Tatarinov ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages January 2000 Volume 35 Issue 1

Integrated information systems are often realized as data-intensive Web sites, which integrate data from multiple data sources. We present a system, called STRUDEL, for specifying and generating data-intensive Web sites. STRUDEL separates the tasks of accessing and integrating a site's data sources, building its structure, and generating its HTML representation. STRUDEL's declarative query language, called StruQL, supports the first two

tasks. Unlike ad-hoc database queries ...

10 XML: not a silver bullet, but a great pipe wrench

77%

Tommie Usdin , Tony Graham StandardView September 1998 Volume 6 Issue 3

11 An empirical evaluation of user interfaces for topic management 77% of Web sites

Brian Amento, Will Hill, Loren Terveen, Deborah Hix, Peter Ju Proceeding of the CHI 99 conference on Human factors in computing systems: the CHI is the limit: the CHI is the limit May 1999

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Israel Hilerio, Weidong Chen

ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration March 1999

Volume 24 Issue 2

Herbal-T introduces an architecture where Internet component integration, interoperability, and component instantiation are the base for information flow coordination. This architecture introduces a framework for combining object functionality across the Internet to create new Internet applications. These new applications are defined in terms of active relationships. The concept of active relations as found in active databases is extended to define a new paradigm for creating Internet applicatio ...

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Grzegorz Czajkowski , Thorsten von Eicken
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Susan Topol, Frances Mueller Roach, Will Rhee
Proceedings of the 15th annual international conference on Computer

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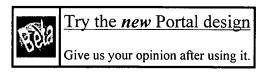
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Taly Sharon , Henry Lieberman , Ted Selker

Proceedings of the 2003 international conference on Intelligent user interfaces January 2003

The experience of a trusted group of colleagues can help users improve the quality and focus of their browsing and searching activities. How could a system provide such help, when and where the users need it, without disrupting their normal work activities? This paper describes Context-Aware Proxy based System (CAPS), an agent that recommends pages and annotates links to reveal their relative popularity among the users colleagues, matched with their automatically computed interest profiles. A We ...

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Sami Rollins , Kevin Almeroth , Dejan MilojivHiE , Kiran Nagaraja Proceedings of the 5th ACM international workshop on Wireless mobile multimedia September 2002

Pervasive computing devices such as Personal Digital Assistants (PDAs) and laptop computers are becoming increasingly ubiquitous. The future promises even more advanced devices such as digital watches, jewelry, and even clothing. However, as

pervasive devices become more widely used for more advanced applications, their resource limitations are becoming more apparent. In this work, we focus on data management and power limitations. We investigate the benefit of using power-aware schemes to autom ...

3 m-links: An infrastructure for very small internet devices Bill N. Schilit , Jonathan Trevor , David M. Hilbert , Tzu Khiau Koh

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Pr ceedings of the 7th annual international conference n Mobile c mputing and netw rking July 2001

09/318,917

c ge cf c

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

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principle (SOSP'99)
Jay Lepreau , Eric Eide

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Karuna P. Joshi , Anupam Joshi , Yelena Yesha , Raghu Krishnapuram

Proceedings of the second international workshop on Web information and data
management November 1999

Analyzing Web Logs for usage and access trends can not only provide important information to web site developers and administrators, but also help in creating adaptive web sites. While there are many existing tools that generate fixed reports from web logs, they typically do not allow ad-hoc analysis queries. Moreover, such tools cannot discover hidden patterns of access embedded in the access logs. We describe a relational OLAP (ROLAP) approach for creating a web-log warehouse. This is pop ...

6 Mobile networking in the Internet

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Charles E. Perkins

Mobile Networks and Applications December 1998

Volume 3 Issue 4

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

Z Efficient indexing for broadcast based wireless systems

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Narayanan Shivakumar , Suresh Venkatasubramanian **Mobile Networks and Applications** December 1996

Volume 1 Issue 4

We consider the application of high volume information dissemination in broadcast based mobile environments. Since current mobile units accessing broadcast information have limited battery capacity, the problemof quick and energy-efficient access to data becomes particularly relevant as the number and sizes of information units increases. We propose several randomized and Huffman-encoding based indexing schemes that are sensitive to data popularity patterns to structure data transmission on ...

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